

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT-JAMAITHA, BLOCK- LAKHIMPUR, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 175 mtrs. depth. and Logged depth ~~169~~ mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 08.Jan.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = ~~16.83~~ Ohms.

Drilling Water Resistivity = ~~17.72~~ Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 40	30	Medium sand	Medium
4.	40 - 50	10	Clay kankar	
5.	50 - 60*	10	Medium sand	Medium
6.	60 - 65	5	Clay kankar	
7.	65 - 70	5	Fine sand	Medium
8.	70 - 77	7	Clay kankar	
9.	77 - 86*	9	Medium sand	Medium
10.	86 - 100	14	Clay kankar	
11.	100 - 130*	30	Medium sand	Medium
12.	130 - 155	25	Clay kankar	
13.	155 - 169*	14	Medium sand	Medium

Sr No 11 - Highly kankar intermixed
Sr No 13 - have finer sediments



- Logging performed as per SWSM guidelines
- Groundwater quality interpreted by firm as per their logger calibration

G.S.
09/01/23

ACE
37m³

37m³

Jamaika, Black-leaf, CKP

Ray-dish - 490CPM

A-size - 200 x 130 mm
10

C-depth - 169

0.5

Repost - 8/23

50 - 60 = 10

77 - 86 = 9 = 6

100 - 130 = 30 = 12

155 - 169 = 14

47.5

0.20

47.7

6.0
6.0
6.0
6.0
6.0

77.7

6.0

|||||

83.3

6.0
6.0
6.0
6.0

~~100.7~~

6.0

113.7

6.0

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6.0

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120.7

6.0

131.7